

Author index for papers in Volume 36

Pages are numbered consecutively through the volume: 1-136, January; 137-325, March; 327-529, May; 531-816, July; 817-955, September; and 957-1052, November.

Ackerman, D. F., M. H. Decker, J. J. Gosselin, K. M. Lasko, M. P. Mullen, R. E. Rosa, E. V. Valera, and B. Wile
751 *Simulation of IBM Enterprise System/9000 Models 820 and 900*

Alt, P. M., C. G. Powell, B. L. Owens, Jr., and H. Ifill
11 *A gray-scale addressing technique for thin-film-transistor/liquid crystal displays*

Antonacci, F. and C. M. Calamani
333 *Capturing the deep meaning of texts through deduction and inference*

Apté, C. V., R. A. Dionne, J. H. Griesmer, M. Karnaugh, J. K. Kastner, M. M. Laker, and E. K. Mays
409 *An experiment in constructing an open expert system using a knowledge substrate*

Askawa, Y., H. Komatsu, H. Etoh, Y. Hama, and K. Maruyama
391 *Zephyr: Toward true compiler-based programming in Prolog*

Aulet, N. R., D. W. Boerstler, G. DeMario, F. D. Ferraiolo, C. E. Hayward, C. D. Heath, A. L. Huffman, W. R. Kelly, G. W. Peterson, and D. J. Stigliani, Jr.
553 *IBM Enterprise Systems multimode fiber optic technology*

Baccarani, G.
208 see Lee, W.

Bahr, J. E., S. B. Levenstein, L. A. McMahon, T. J. Mullins, and A. H. Wottreng
1001 *Architecture, design, and performance of Application System/400 (AS/400) multiprocessors*

Barish, A. E., J. P. Eckhardt, M. D. Mayo, W. A. Svarczkopf, and S. P. Gaur
829 *Improved performance of IBM Enterprise System/9000 bipolar logic chips*

Batson, P. E.
183 see Kuan, T. S.

Beckham, K. F.
921 see Brofman, P. J.

Beierle, C.
375 *Logic programming with typed unification and its realization on an abstract machine*

Boerstler, D. W.
553 see Aulet, N. R.

Bollinger, T. and U. Pletat
965 *Knowledge in operation*

Boone, L. E., M. R. Brinthaup, J. A. Malack, and J. Pavlik
943 *Aspects of the electrical design and analyses of the printed circuit boards of the IBM Enterprise System/9000 water-cooled processors*

Booth, R. M., Jr., K. A. Tallman, T. J. Wiltshire, and P. L. Yee
835 *A statistical approach to quality control of non-normal lithographical overlay distributions*

Bordonaro, D. T.
233 see Rubloff, G. W.

Bossen, D. C.
765 see Chen, C. L.

Brinthaup, M. R.
943 see Boone, L. E.

Brofman, P. J., S. K. Ray, and K. F. Beckham
921 *Electrical connections to the thermal conduction modules of the IBM Enterprise System/9000 water-cooled processors*

Brown, K. H., D. A. Grose, R. C. Lange, T. H. Ning, and P. A. Totta
821 *Advancing the state of the art in high-performance logic and array technology*

Bunce, P., W. Chin, L. Clark, and B. Krumm
859 *Directory and Trace memory chip with active discharge cell*

Calamani, C. M.
333 see Antonacci, F.

Calta, S. A., J. A. deVeer, E. Loizides, and R. N. Strangways
535 *Enterprise Systems Connection (ESCON) Architecture—System overview*

Casanova, M. A., A. S. Hemerly, and R. A. de T. Guerreiro
347 *Explaining SLDNF resolution with non-normal defaults*

- Casanova, M. A.**
361 see Guerreiro, R. A. de T.
- Casper, D. F.**
617 see Flanagan, J. R.
- Chen, C. L., N. N. Tendolkar, A. J. Sutton, M. Y. Hsiao, and D. C. Bossen**
765 *Fault-tolerance design of the IBM Enterprise System/9000 Type 9021 processors*
- Chin, W.**
859 see Bunce, P.
- Chiu, K., J. J. DeFazio, and T. G. McNamara**
867 *IBM Enterprise System/9000 clock system: A technology and system perspective*
- Chiu, G. T.**
845 see Guthrie, W. L.
- Clark, L.**
859 see Bunce, P.
- Coleman, J. J., C. B. Meltzer, and J. L. Weiner**
647 *Fiber Distributed Data Interface attachment to System/390*
- Covi, K. R.**
781 *Three-loop feedback control of fault-tolerant power supplies in IBM Enterprise System/9000 processors*
- Crabbé, E. F.**
208 see Lee, W.
- Cwiakala, R., J. D. Haggard, and H. M. Yudenfriend**
633 *MVS Dynamic Reconfiguration Management*
- Dao-Trong, S. and K. Helwig**
733 *A single-chip IBM System/390 floating-point processor in CMOS*
- Davidson, E. E., P. W. Hardin, G. A. Katopis, M. G. Nealon, and L. L. Wu**
877 *Physical and electrical design features of the IBM Enterprise System/9000 circuit module*
- Decker, M. H.**
751 see Ackerman, D. F.
- DeFazio, J. J.**
867 see Chiu, K.
- Del Buono, M.**
487 see Di Zenzo, S.
- Delia, D. J., T. C. Gilgert, N. H. Graham, U. Hwang, P. W. Ing, J. C. Kan, R. G. Kemink, G. C. Maling, R. F. Martin, K. P. Moran, J. R. Reyes, R. R. Schmidt, and R. A. Steinbrecher**
791 *System cooling design for the water-cooled IBM Enterprise System/9000 processors*
- DeMario, G.**
553 see Aulet, N. R.
- deVeer, J. A.**
535 see Calta, S. A.
- Dhondy, Noshir R., Richard J. Schmalz, Ronald M. Smith, Sr., Julian Thomas, and Phil Yeh**
655 *Coordination of time-of-day clocks among multiple systems*
- Di Zenzo, S., M. Del Buono, M. Meucci, and A. Spirito**
487 *Optical recognition of hand-printed characters of any size, position, and orientation*
- Dionne, R. A.**
409 see Apté, C. V.
- Eckhardt, J. P.**
829 see Barish, A. E.
- Elliott, J. C. and M. W. Sachs**
577 *The IBM Enterprise Systems Connection (ESCON) Architecture*
- Etoh, H.**
391 see Asakawa, Y.
- Fahey, P. M., S. R. Mader, S. R. Stiffler, R. L. Mohler, J. D. Mis, and J. A. Slinkman**
158 *Stress-induced dislocations in silicon integrated circuits*
- Feenstra, R. M.**
183 see Kuan, T. S.
- Ferraiolo, F. D.**
553 see Aulet, N. R.
- Fischetti, M. V.**
208 see Lee, W.
- Flanagan, J. R., T. A. Gregg, and D. F. Casper**
617 *The IBM Enterprise Systems Connection (ESCON) channel—A versatile building block*
- Fujimoto, Y.**
76 *Study of the V_{th} shift of the thin-film transistor by the bias temperature stress test*
- Fukunaga, T.**
43 see Koseki, T.
- Fulton, J. J.**
905 see Kranik, J. R.
- Fury, M. A.**
845 see Guthrie, W. L.
- Gaur, S. P.**
829 see Barish, A. E.
- Georgiou, C. J., T. A. Larsen, P. W. Oakhill, and B. Salimi**
593 *The IBM Enterprise Systems Connection (ESCON) Director: A dynamic switch for 200Mb/s fiber optic links*
- Gibson, D. H. and G. S. Rao**
695 *Design of the IBM System/390 computer family for numerically intensive applications: An overview for engineers and scientists*
- Gilgert, T. C.**
791 see Delia, D. J.
- Gnudi, A.**
208 see Lee, W.
- Gosselin, J. J.**
751 see Ackerman, D. F.
- Goth, G. F., M. L. Zumbrunnen, and K. P. Moran**
805 *Dual-tapered-piston (DTP) module cooling for IBM Enterprise System/9000 systems*
- Graham, N. H.**
791 see Delia, D. J.
- Gregg, T. A.**
617 see Flanagan, J. R.
- Griesmer, J. H.**
409 see Apté, C. V.
- Grose, D. A.**
821 see Brown, K. H.
- Guerreiro, R. A. de T., A. S. Hemerly, and M. A. Casanova**
361 *STORK and PENGUIN: Logic programming systems using general clauses and defaults*
- Guerreiro, R. A. de T.**
347 see Casanova, M. A.
- Guthrie, W. L., W. J. Patrick, E. Levine, H. C. Jones, E. A. Mehter, T. F. Houghton, G. T. Chiu, and M. A. Fury**
845 *A four-level VLSI bipolar metallization design with chemical-mechanical planarization*

- Haggar, J. D.**
633 see Cwiakala, R.
- Hama, Y.**
391 see Asakawa, Y.
- Hardin, P. W.**
877 see Davidson, E. E.
- Hatoh, H.**
23 see Takano, H.
- Hayward, C. E.**
553 see Aulet, N. R.
- Heath, C. D.**
553 see Aulet, N. R.
- Helwig, K.**
733 see Dao-Trong, S.
- Hemerly, A. S.**
347 see Casanova, M. A.
- Hemerly, A. S.**
361 see Guerreiro, R. A. de T.
- Herron, L. W.**
889 see Tummala, R. R.
- Houghton, T. F.**
845 see Guthrie, W. L.
- Howard, W. E.**
3 *Thin-film-transistor/liquid crystal display technology—An introduction*
- Hsiao, M. Y.**
765 see Chen, C. L.
- Huffman, A. L.**
553 see Aulet, N. R.
- Humenik, J. N., J. M. Oberschmidt, L. L. Wu, and S. G. Paull**
935 *Low-inductance decoupling capacitor for the thermal conduction modules of the IBM Enterprise System/9000 processors*
- Humenik, J. N.**
889 see Tummala, R. R.
- Hwang, U.**
791 see Delia, D. J.
- Ifill, H.**
11 see Alt, P. M.
- Ing, P. W.**
791 see Delia, D. J.
- Jenkins, L. C., R. J. Polastre, R. R. Troutman, and R. L. Wisnieff**
59 *Functional testing of TFT/LCD arrays*
- John, R. A.**
51 see Lien, A.
- Jones, H. C.**
845 see Guthrie, W. L.
- Kan, J. C.**
791 see Delia, D. J.
- Karnaugh, M.**
409 see Apté, C. V.
- Kastner, J. K.**
409 see Apté, C. V.
- Katopis, G. A.**
877 see Davidson, E. E.
- Kellner, B. M.**
889 see Tummala, R. R.
- Kelly, W. R.**
553 see Aulet, N. R.
- Kemink, R. G.**
791 see Delia, D. J.
- Knickerbocker, J. U.**
889 see Tummala, R. R.
- Knickerbocker, S. H.**
889 see Tummala, R. R.
- Komatsu, H.**
391 see Asakawa, Y.
- Koseki, T., T. Fukunaga, H. Yamanaka, and T. Ueki**
43 *Color filter for 10.4-in-diagonal 4096-color thin-film-transistor liquid crystal displays*
- Kranik, J. R., J. J. Fulton, L. Su, and S. M. Zimmerman**
905 *Equipment-related advances in the fabrication of glass-ceramic/copper/polyimide substrates*
- Krumm, B.**
859 see Bunce, P.
- Kuan, T. S., P. E. Batson, R. M. Feenstra, A. J. Slavin, and R. M. Tromp**
183 *Application of electron and ion beam analysis techniques to microelectronics*
- Kumar, M.**
990 *Unique design concepts in GF11 and their impact on performance*
- Kuo, Y.**
69 *Reactive ion etching technology in thin-film-transistor processing*
- Laker, M. M.**
409 see Apté, C. V.
- Lange, R. C.**
821 see Brown, K. H.
- Larsen, T. A.**
593 see Georgiou, C. J.
- Lasko, K. M.**
751 see Ackerman, D. F.
- Laux, S. E.**
208 see Lee, W.
- Lee, W., S. E. Laux, M. V. Fischetti, G. Baccarani, A. Gnudi, J. M. C. Stork, J. A. Mandelman, E. F. Crabbé, M. R. Wordeman, and F. Odeh**
208 *Numerical modeling of advanced semiconductor devices*
- Levenstein, S. B.**
1001 see Bahr, J. E.
- Levine, E.**
845 see Guthrie, W. L.
- Lien, A. and R. A. John**
51 *Lateral field effect in twisted nematic cells*
- Liptay, J. S.**
713 *Design of the IBM Enterprise System/9000 high-end processor*
- Loizides, E.**
535 see Calta, S. A.
- Mader, S. R.**
158 see Fahey, P. M.
- Malack, J. A.**
943 see Boone, L. E.
- Maling, G. C.**
791 see Delia, D. J.
- Mandelman, J. A.**
208 see Lee, W.

- Martin, R. F.**
791 see Delia, D. J.
- Maruyama, K.**
391 see Asakawa, Y.
- Master, R. N.**
889 see Tummala, R. R.
- Mayo, M. D.**
829 see Barish, A. E.
- Mays, E. K.**
409 see Apté, C. V.
- McCarthy, John**
329 see Wiederhold, Gio
- McMahon, L. A.**
1001 see Bahr, J. E.
- McNamara, T. G.**
867 see Chiu, K.
- Mehter, E. A.**
845 see Guthrie, W. L.
- Meltzer, C. B.**
647 see Coleman, J. J.
- Meucci, M.**
487 see Di Zenzo, S.
- Mis, J. D.**
158 see Fahey, P. M.
- Mohler, R. L.**
158 see Fahey, P. M.
- Moran, K. P.**
791 see Delia, D. J.
- Moran, K. P.**
805 see Goth, G. F.
- Mullen, M. P.**
751 see Ackerman, D. F.
- Mullins, T. J.**
1001 see Bahr, J. E.
- Nealon, M. G.**
877 see Davidson, E. E.
- Neisser, M. O.**
889 see Tummala, R. R.
- Nguyen, T. N. and H. E. Stephanou**
469 *Topological reasoning about dextrous grasps*
- Nicholson, C. N.**
958 *The controlled experiment in knowledge-acquisition research*
- Ning, T. H.**
821 see Brown, K. H.
- Nufer, R. W.**
889 see Tummala, R. R.
- Nüse, R.**
435 see Wetter, T.
- Oakhill, P. W.**
593 see Georgiou, C. J.
- Oberschmidt, J. M.**
935 see Humenik, J. N.
- Odeh, F.**
208 see Lee, W.
- Oehrlein, G. S. and J. F. Rembetski**
140 *Plasma-based dry etching techniques in the silicon integrated circuit technology*
- Owens, B. L., Jr.**
11 see Alt, P. M.
- Patrick, W. J.**
845 see Guthrie, W. L.
- Paull, S. G.**
935 see Humenik, J. N.
- Pavlik, J.**
943 see Boone, L. E.
- Perry, C. H.**
889 see Tummala, R. R.
- Peterson, G. W.**
553 see Aulet, N. R.
- Pletat, U.**
965 see Bollinger, T.
- Polastre, R. J.**
59 see Jenkins, L. C.
- Powell, C. G.**
11 see Alt, P. M.
- Rao, G. S.**
695 see Gibson, D. H.
- Ray, S. K.**
921 see Brofman, P. J.
- Redmond, T. F.**
889 see Tummala, R. R.
- Rembetski, J. F.**
140 see Oehrlein, G. S.
- Reyes, J. R.**
791 see Delia, D. J.
- Rosa, R. E.**
751 see Ackerman, D. F.
- Rubloff, G. W. and D. T. Bordonaro**
233 *Integrated processing for microelectronics science and technology*
- Sachs, M. W.**
577 see Elliott, J. C.
- Salimi, B.**
593 see Georgiou, C. J.
- Schlig, E. S.**
83 see Wong, H.-S.
- Schmalz, Richard J.**
655 see Dhondy, Noshir R.
- Schmidt, R. R.**
791 see Delia, D. J.
- Slavin, A. J.**
183 see Kuan, T. S.
- Slinkman, J. A.**
158 see Fahey, P. M.
- Smith, R. M., Sr. and P. C. Yeh**
683 *Integrated Cryptographic Facility of the Enterprise Systems Architecture/390: Design considerations*
- Smith, Ronald M., Sr.**
655 see Dhondy, Noshir R.
- Spirito, A.**
487 see Di Zenzo, S.
- Steinbrecher, R. A.**
791 see Delia, D. J.
- Stephanou, H. E.**
469 see Nguyen, T. N.
- Stiffler, S. R.**
158 see Fahey, P. M.
- Stigliani, D. J., Jr.**
553 see Aulet, N. R.

- Stork, J. M. C.**
208 see Lee, W.
- Strangways, R. N.**
535 see Calta, S. A.
- Su, L.**
905 see Kranik, J. R.
- Sutton, A. J.**
765 see Chen, C. L.
- Suzuki, S.**
23 see Takano, H.
- Svarczkopf, W. A.**
829 see Barish, A. E.
- Swanson, M. D. and C. P. Vignola**
667 *MVS/ESA coupled-systems considerations*
- Takano, H., S. Suzuki, and H. Hatoh**
23 *Cell design of gray-scale thin-film-transistor-driven liquid crystal displays*
- Tallman, K. A.**
835 see Booth, R. M., Jr.
- Tendolkar, N. N.**
765 see Chen, C. L.
- Thomas, Julian**
655 see Dhondy, Noshir R.
- Totta, P. A.**
821 see Brown, K. H.
- Tromp, R. M.**
183 see Kuan, T. S.
- Troutman, R. R.**
59 see Jenkins, L. C.
- Tummala, R. R., J. U. Knickerbocker, S. H. Knickerbocker, L. W. Herron, R. W. Nufer, R. N. Master, M. O. Neisser, B. M. Kellner, C. H. Perry, J. N. Humenik, and T. F. Redmond**
889 *High-performance glass-ceramic/copper multilayer substrate with thin-film redistribution*
- Ueki, T.**
43 see Koseki, T.
- Valera, E. V.**
751 see Ackerman, D. F.
- Vignola, C. P.**
667 see Swanson, M. D.
- Weiner, J. L.**
647 see Coleman, J. J.
- Wetter, T. and R. Nüse**
435 *Use of natural language for knowledge acquisition: Strategies to cope with semantic and pragmatic variation*
- Wiederhold, Gio and John McCarthy**
329 *Arthur Samuel: Pioneer in Machine Learning*
- Wile, B.**
751 see Ackerman, D. F.
- Wiltshire, T. J.**
835 see Booth, R. M., Jr.
- Wisnieff, R. L.**
59 see Jenkins, L. C.
- Wong, H.-S., Y. L. Yao, and E. S. Schlig**
83 *TDI charge-coupled devices: Design and applications*
- Wordeman, M. R.**
208 see Lee, W.
- Wottreng, A. H.**
1001 see Bahr, J. E.
- Wu, L. L.**
877 see Davidson, E. E.
- Wu, L. L.**
935 see Humenik, J. N.
- Yamanaka, H.**
43 see Koseki, T.
- Yao, Y. L.**
83 see Wong, H.-S.
- Yee, P. L.**
835 see Booth, R. M., Jr.
- Yeh, P. C.**
683 see Smith, R. M., Sr.
- Yeh, Phil**
655 see Dhondy, Noshir R.
- Yudenfriend, H. M.**
633 see Cwiakala, R.
- Zimmerman, S. M.**
905 see Kranik, J. R.
- Zumbrunnen, M. L.**
805 see Goth, G. F.